

Layout Verification and Archive Signoff

Objective: Completing this signoff determines the readiness of a design for mask procurement and archive. This form should be completed after final verification has been run..

Part Number (i.e. 773) 9887A	Die Revision (i.e. B) -	Wafer Fab Process Flow (i.e. ABCMOS) L40 DPTM
All Layer Revision: [<input checked="" type="checkbox"/>]		†Partial Layer Revision: []
Cadlib Process: L40 DPTM		Cadlib Version: 20

†Note: Partial layer revisions require an XOR job to verify that no other layers were modified.

1.0 List Instance Masters Run

Run Date: **5-17-02**

2.0 Design Rule Check

Run Date: **5-14-02**

Final DRC after layers have been generated and placed.

Self-intersecting, Discarded and Off-Grid errors are reported in the <jobname>.err file.

Self-intersecting and Discarded geometries **CANNOT** be signed off. They must be fixed.

- 2.1 Non-45, Off grid or Acute angle geometries?

AESD-SMALL-SR

Y [☒] N [] n/a []

Comment/Action:

ESD cells, AESD-SMALL-SR-A,

ESDOUT, ESD-POWER-NDIO, AESD-NSR, ESD, ESD-A

- 2.2 Run "listdrc" on the <jobname>.sum file and include the printout.

Were there any violation?; If YES, have the appropriate people sign off.

Y [☒] N [] n/a []

Design Engineer:

Process Engineer:

CAD Engineer:

Comment/Action:

P. Newell 5/14/02

TSMC Parts PPSFT35 AND NPSFT35

- 2.3 Were the command files MODIFIED?

If modified, have appropriate people sign off:

Y [] N [☒] n/a []

Design Engineer:

CAD Engineer:

Comment/Action:

3.0 Layout versus Schematic

Run Date: **5-14-02**

Final check run after layers have been generated and placed.

- 3.1 Were there any CONNECTIVITY violations?

If yes, include copy of .lvs file and get appropriate sign off:

Y [] N [☒] n/a []

Comment/Action:

DM-6003 REV. B PAGE 2 of 3



**ANALOG
DEVICES**

CODE IDENT NO.

24355

THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC.

It is not to be reproduced or copied, in whole or in part, or used for furnishing information to others, or for any other purpose detrimental to the interests of Analog Devices. The equipment shown hereon may be protected by patents owned or controlled by Analog Devices.

Exhibit 5

Serial No. 10/717,394

page 1 of 46

3.2 Were there any SIZE violations?

Y [] N [✓] n/a []

If yes, include copy of .lvs file and get appropriate sign off:

Design Engineer: _____

CAD Engineer: _____

Comment/Action: _____

3.3 Has NETLIST been MODIFIED?

Y [] N [✓] n/a []

If modified, have appropriate people sign off:

Design Engineer: _____

CAD Engineer: _____

Comment/Action: _____

4.0 XOR - required on partial revisions.

Run Date: _____

4.1 Was XOR run on old and new gin files?

Y [] N [] n/a [✓]

Run "listdc" on the <jobname>.sum file and include printout.

5.0 Assembly Check

5.1 Were the guidelines contained in ADI-0017 (Assembly Design Rules) followed during design and layout?

Y [✓] N [] n/a []

Note: If the answer is no, please contact Assembly Engineering to arrange a design review.

Comment/Action: _____

5.2 Was ADI Bond used to optimize bond pad placement?

Y [] N [✓] n/a []

Comment/Action: _____

6.0 Archive Prep

6.1 Was archive tar file created?

Y [] N [] n/a []

Design/Layout is responsible for creating a compressed tar file of the design database for archiving. The tar file should include:

- All Cadence libraries referenced by the design (Excluding CADLIB supplied process libraries and standard cell libraries)
- All TC schematics used for simulation and verification.
- Verilog/Synopsis files.
- Verification directories, these are normally located in your project directory.

There is a skill routine "Create Archive Script" available to help create an archive tar file. The skill routine will write a unix script that will create a compressed tar file when run by the user.

7.0 Signature Approval

Assembly Engineer: _____

Date: _____

Layout Engineer: _____

Date: _____

Design Engineer: _____

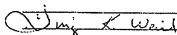
Date: _____

Design Manager: _____

Date: _____

CAD Engineer: _____

Date: 5/14/02



DM-6003 REV. B PAGE 3 of 3

ANALOG
DEVICES

CODE IDENT NO.

24355

THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC. It is not to be reproduced or copied, in whole or in part, or used for furnishing information to others, or for any other purpose detrimental to the interests of Analog Devices. The equipment shown hereon may be protected by patents owned or controlled by Analog Devices.

Exhibit 5

Serial No. 10/717,394

page 2 of 46



Foundry Mask Engineering

Product Definition	Die Finish	Mask Procurement	QA
Database - Database Detail & Status	Stepping Pitch	Review & Submit	

Foundry: TSMC

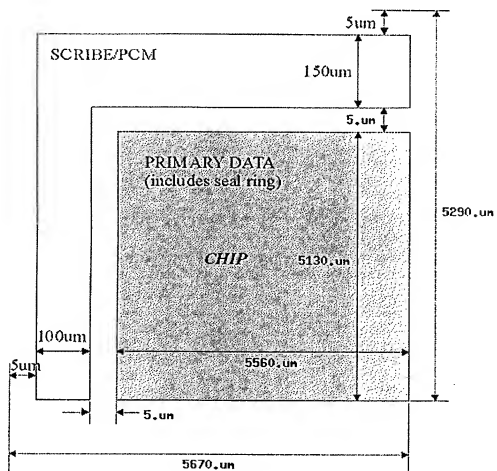
ECN	Device Name	Manufacturing
Date: 04/30/2002 Originator: Sandra Ireland Number: TOD 1378	Foundry: TMG285 Rev: A ADI: AD9887A Rev: -	Process: 0.35C2P3M33.00 FAB: FABWT(Wafertech)

Please review the following information. If you need to make modifications use the "Back" button to return to the previous page. Otherwise, press the "Complete Die Finish" button located at the bottom of the screen.

Database	CADLIB or the Techfile path/name:	L40DPTM
	Primary Cell Name:	9887a
	Primary Cell Coord. (um):	XLL = -2780 YLL = -2565 XUR = 2780 YUR = 2565
	Scribe:	110/160 80x80

DRC Status:	Violations With CAD Sign-off
Are you using 3rd party IP/Libraries on this product?	No
Is the metal and poly density satisfied?	Yes
Are metal fuses being used?	No
Seal-Ring Status:	Seal-Ring Complete Complete-ADI Seal-Ring: (Spec/Rev:) L40DPTM
Mask Procurement Engineer:	Mohamed Mohamedi
Comments	

Chip Size (with Seal Ring)		Stepping Pitch	
X(um):	5560.	X(um):	5670.
Y(um):	5130.	Y(um):	5290.



Go Back

Submit Die Finish

Save and Quit

Return ECN

Projects/ad9887A/vanhoy/autoroute
HDCP_TMD518 used in the 9887A

Projects/ad9887A/sreel/Autoroute
ECO3 control/Logic Top used in the 9887A

~~Return~~
Autoroute notes craftsman

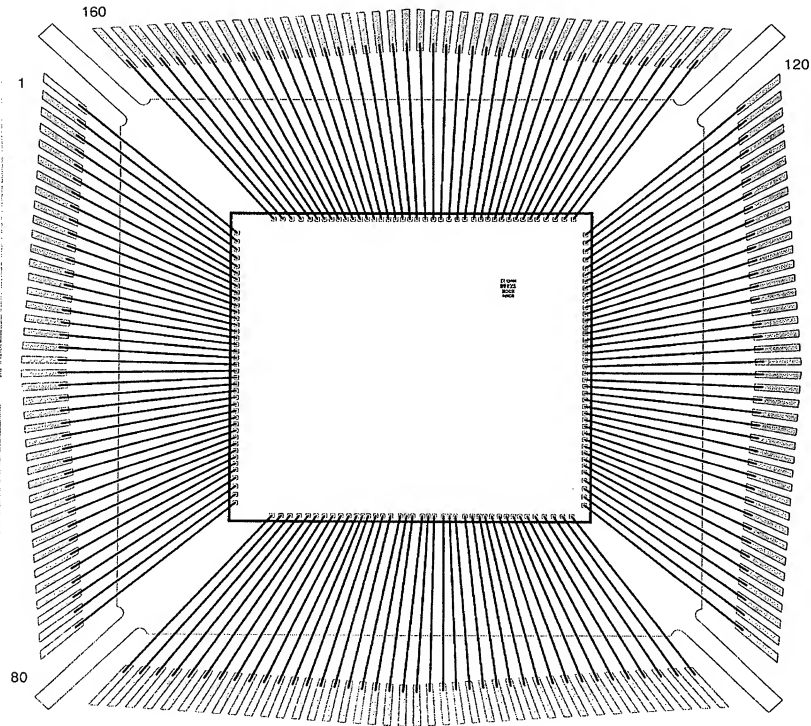
Projects/ad9887A/Vanhoy

140_dptm_44.rules
9887.do

Assembly Location: STATS

160L MQFP 28x28

"NULL"



All information in this diagram is proprietary to ANALOG DEVICES INC.
and is subject to non-disclosure agreements.

ADIBOND Ver: 5.1

Die Diagram #

Die ID

AD9887A

Product

AD9887A

Pin to bond first

Pin 1

Scale

15x

CODE IDENT NO.

24355

Bond Pad Metal Composition

98.5%Al, 1%Si, 0.5%Cu



Revision Number

Min. Passivation Opening

70 x 70µm

2.8 x 2.8 mils

Die Size

5640 x 5210µm

222.0 x 205.1 mils

Paddle Size

9000 x 9000µm

354 x 354 mils

Foundry Number

PKG000701

Assembly Location: STATS

160L MQFP 28x28

NULL

BOND WIRE STATISTICS

=====

Product (Generic) Number(s): AD9887A

Die ID: AD9887A

Package ID: 160MQFP01

Wire Type: Gold

Package Capability: SBGA, PBGA, LQFP, MQFP

Wire Diameter: 30(1.18)

Max Allowed Wire Length: 4570(179.92)

Longest Wire: 3479(137.0)

Shortest Wire: 2707(106.6)

* ADI-0017 violations are listed.

Measurements take the form: microns (mils).

BOND PAD STATISTICS

=====

All measurments in microns.

Min. Passivation Opening: 70x70

Min Pad Pitch: 90

All information in this diagram is proprietary to ANALOG DEVICES INC.
and is subject to non-disclosure agreements.

ADIBOND Ver: 5.1

Selling Diagram #

Die ID

Product

Pin to bond first

Scale

CODE IDENT NO.

Bond Pad Metal Composition

AD9887A

AD9887A

Pin 1

15x

24355

98.5%Al, 1%Si, 0.5%Cu



Revision Number

Min. Passivation Opening

Die Size

Paddle Size

Foundry Number

70 x 70µm

5640 x 5210µm

9000 x 9000µm

PKG000701

2.8 x 2.8 mils

222.0 x 205.1 mils

354 x 354 mils

Assembly Location: STATS

160L MQFP 28x28

"NULL"


Products Covered by this Document: AD9887A

COORDINATES OF BOND PAD CENTERS

=====

1	-2705,2255	2	-2705,2115	3	-2705,1975	4	-2705,1835
5	-2705,1695	6	-2705,1585	7	-2705,1475	8	-2705,1365
9	-2705,1255	10	-2705,1145	11	-2705,1035	12	-2705,925
13	-2705,815	14	-2705,705	15	-2705,595	16	-2705,485
17	-2705,375	18	-2705,265	19	-2705,155	20	-2705,45
21	-2705,-65	22	-2705,-175	23	-2705,-285	24	-2705,-395
25	-2705,-505	26	-2705,-615	27	-2705,-725	28	-2705,-835
29	-2705,-945	30	-2705,-1055	31	-2705,-1165	32	-2705,-1275
33	-2705,-1385	34	-2705,-1495	35	-2705,-1605	36	-2705,-1715
37	-2705,-1855	38	-2705,-1995	39	-2705,-2135	40	-2705,-2275
41	-2145,-2490	42	-2005,-2490	43	-1865,-2490	44	-1725,-2490
45	-1585,-2490	46	-1460,-2490	47	-1335,-2490	48	-1210,-2490
49	-1085,-2490	50	-960,-2490	51	-840,-2490	52	-750,-2490
53	-660,-2490	54	-545,-2490	55	-435,-2490	56	-315,-2490
57	-165,-2490	58	-70,-2490	59	25,-2490	60	175,-2490
61	270,-2490	62	365,-2490	63	515,-2490	64	610,-2490
65	705,-2490	66	855,-2490	67	970,-2490	68	1080,-2490
69	1170,-2490	70	1275,-2490	71	1395,-2490	72	1505,-2490
73	1615,-2490	74	1715,-2490	75	1830,-2490	76	1955,-2490
77	2095,-2490	78	2235,-2490	79	2375,-2490	80	2515,-2490
81	2705,-2300	82	2705,-2160	83	2705,-2020	84	2705,-1880
85	2705,-1740	86	2705,-1630	87	2705,-1520	88	2705,-1410
89	2705,-1300	90	2705,-1190	91	2705,-1080	92	2705,-970
93	2705,-860	94	2705,-750	95	2705,-640	96	2705,-530
97	2705,-420	98	2705,-310	99	2705,-200	100	2705,-90
101	2705,20	102	2705,130	103	2705,240	104	2705,350
105	2705,460	106	2705,570	107	2705,680	108	2705,790
109	2705,900	110	2705,1010	111	2705,1120	112	2705,1230
113	2705,1340	114	2705,1450	115	2705,1560	116	2705,1670
117	2705,1810	118	2705,1950	119	2705,2090	120	2705,2230
121	2520,2490	122	2380,2490	123	2240,2490	124	2100,2490
125	1960,2490	126	1850,2490	127	1740,2490	128	1630,2490
129	1520,2490	130	1405,2490	131	1295,2490	132	1185,2490
133	1075,2490	134	965,2490	135	825,2490	136	705,2490
137	575,2490	138	445,2490	139	325,2490	140	195,2490
141	65,2490	142	-45,2490	143	-155,2490	144	-265,2490
145	-375,2490	146	-485,2490	147	-595,2490	148	-705,2490
149	-815,2490	150	-925,2490	151	-1035,2490	152	-1145,2490
153	-1255,2490	154	-1365,2490	155	-1475,2490	156	-1585,2490
157	-1725,2490	158	-1865,2490	159	-2005,2490	160	-2145,2490

All information in this diagram is proprietary to ANALOG DEVICES INC.
and is subject to non-disclosure agreements.

	AD9887A		AD9887A		Pin 1		15x		24355		ADIBOND Ver. 5.1
	Revision Number	Min. Passivation Opening	Die Size	Pad Size	Pad Size	Pad Size	Pad Size	Pad Size	Pad Size	Pad Size	Bond Pad Metal Composition
		70 x 70µm	5640 x 5210µm	9000 x 9000µm	9000 x 9000µm	9000 x 9000µm	9000 x 9000µm	9000 x 9000µm	9000 x 9000µm	9000 x 9000µm	98.5%Al, 1%Si, 0.5%Cu
		2.8 x 2.8 mils	222.0 x 205.1 mils	354 x 354 mils	354 x 354 mils	354 x 354 mils	354 x 354 mils	354 x 354 mils	354 x 354 mils	354 x 354 mils	Foundry Number PKG0000701


```

(gremlin) net/catwoman.adseng/disk1/ftp> cd inbox
(gremlin)/net/catwoman.adseng/disk1/ftp/inbox> ls -l 9*
-rw-r--r-- 1 7204 19970312 May 14 13:18 9887a.gin
ls -l 9*
-rw-r--r-- 1 7204 46214560 May 14 13:21 9887a.gin
(gremlin)/net/catwoman.adseng/disk1/ftp/inbox> !!
ls -l 9*
-rw-r--r-- 1 7204 62825016 May 14 13:23 9887a.gin
(gremlin)/net/catwoman.adseng/disk1/ftp/inbox> !!
ls -l 9*
-rw-r--r-- 1 7204 70236424 May 14 13:23 9887a.gin
(gremlin)/net/catwoman.adseng/disk1/ftp/inbox> !!
ls -l 9*
-rw-r--r-- 1 7204 70568808 May 14 13:24 9887a.gin
(gremlin)/net/catwoman.adseng/disk1/ftp/inbox> !!
ls -l 9*
-rw-r--r-- 1 7204 74442752 May 14 13:24 9887a.gin
(gremlin)/net/catwoman.adseng/disk1/ftp/inbox>

```

Exhibit 5

Serial No. 10717,394

```
(grenlii., projects/ad9887A/vanhoy/draclvs> ftp catwoman.adseng
Connected to catwoman.adseng.analog.com.
220 catwoman FTP server (SunOS 5.8) ready.
Name (catwoman.adseng:vanhoy): anonymous
331 Guest login ok, send ident as password.
Password:
230 Guest login ok, access restrictions apply.
ftp> cd inbox
250 CWD command successful.
ftp> binary
200 Type set to I.
ftp> put 9887a.gin
200 PORT command successful.
150 Binary data connection for 9887a.gin (137.71.50.129,60716).
226 Transfer complete.
local: 9887a.gin remote: 9887a.gin
74442752 bytes sent in 4.6e+02 seconds (157.66 Kbytes/s)
ftp>
```



```

green_out_b<3> 30 blue_out_b<2> 12703
blue_out_a<3> 10036
blue_out_a<2> 9113
blue_out_a<1> 9111
blue_out_a<0> 7411
green_out_b<3> 29 green_out_b<3> 12735
green_out_b<2> 28 green_out_b<2> 13006
green_out_b<1> 26 green_out_b<1> 14253
green_out_b<0> 25
green_out_a<3> 82 pac_xf112_00T 29
green_out_a<2> 37 green_out_a<2> 16176
green_out_a<1> 32 pac_xf112_00T 4882
green_out_a<0> 85 pac_xf112_00T 12568
pac_xf112_00T 35 pac_xf112_00T 12568
pac_xf112_00T 34 pac_xf112_00T 12568
pac_xf112_00T 33 pac_xf112_00T 12568
pac_xf112_00T 32 pac_xf112_00T 12568
pac_xf112_00T 31 pac_xf112_00T 12568
pac_xf112_00T 30 pac_xf112_00T 12568
pac_xf112_00T 29 pac_xf112_00T 12568
pac_xf112_00T 28 pac_xf112_00T 12568
pac_xf112_00T 27 pac_xf112_00T 12568
pac_xf112_00T 26 pac_xf112_00T 12568
pac_xf112_00T 25 pac_xf112_00T 12568
pac_xf112_00T 24 pac_xf112_00T 12568
pac_xf112_00T 23 pac_xf112_00T 12568
pac_xf112_00T 22 pac_xf112_00T 12568
pac_xf112_00T 21 pac_xf112_00T 12568
pac_xf112_00T 20 pac_xf112_00T 12568
pac_xf112_00T 19 pac_xf112_00T 12568
pac_xf112_00T 18 pac_xf112_00T 12568
pac_xf112_00T 17 pac_xf112_00T 12568
pac_xf112_00T 16 pac_xf112_00T 12568
pac_xf112_00T 15 pac_xf112_00T 12568
pac_xf112_00T 14 pac_xf112_00T 12568
pac_xf112_00T 13 pac_xf112_00T 12568
pac_xf112_00T 12 pac_xf112_00T 12568
pac_xf112_00T 11 pac_xf112_00T 12568
pac_xf112_00T 10 pac_xf112_00T 12568
pac_xf112_00T 9 pac_xf112_00T 12568
pac_xf112_00T 8 pac_xf112_00T 12568
pac_xf112_00T 7 pac_xf112_00T 12568
pac_xf112_00T 6 pac_xf112_00T 12568
pac_xf112_00T 5 pac_xf112_00T 12568
pac_xf112_00T 4 pac_xf112_00T 12568
pac_xf112_00T 3 pac_xf112_00T 12568
pac_xf112_00T 2 pac_xf112_00T 12568
pac_xf112_00T 1 pac_xf112_00T 12568
pac_xf112_00T 0 pac_xf112_00T 12568

```

X867apihivslvs

```

red_out_a<1> 57 red_out_a<1> 16318
red_out_a<2> 56 red_out_a<2> 16319
red_out_a<3> 55 red_out_a<3> 16320
red_out_a<4> 54 red_out_a<4> 16321
red_out_a<5> 53 red_out_a<5> 16322
red_out_a<6> 52 red_out_a<6> 16323
red_out_a<7> 51 red_out_a<7> 16324
red_out_a<8> 50 red_out_a<8> 16325
red_out_a<9> 49 red_out_a<9> 16326
red_out_a<10> 48 red_out_a<10> 16327
red_out_a<11> 47 red_out_a<11> 16328
red_out_a<12> 46 red_out_a<12> 16329
red_out_a<13> 45 red_out_a<13> 16330
red_out_a<14> 44 red_out_a<14> 16331
red_out_a<15> 43 red_out_a<15> 16332
red_out_a<16> 42 red_out_a<16> 16333
red_out_a<17> 41 red_out_a<17> 16334
red_out_a<18> 40 red_out_a<18> 16335
red_out_a<19> 39 red_out_a<19> 16336
red_out_a<20> 38 red_out_a<20> 16337
red_out_a<21> 37 red_out_a<21> 16338
red_out_a<22> 36 red_out_a<22> 16339
red_out_a<23> 35 red_out_a<23> 16340
red_out_a<24> 34 red_out_a<24> 16341
red_out_a<25> 33 red_out_a<25> 16342
red_out_a<26> 32 red_out_a<26> 16343
red_out_a<27> 31 red_out_a<27> 16344
red_out_a<28> 30 red_out_a<28> 16345
red_out_a<29> 29 red_out_a<29> 16346
red_out_a<30> 28 red_out_a<30> 16347
red_out_a<31> 27 red_out_a<31> 16348
red_out_a<32> 26 red_out_a<32> 16349
red_out_a<33> 25 red_out_a<33> 16350
red_out_a<34> 24 red_out_a<34> 16351
red_out_a<35> 23 red_out_a<35> 16352
red_out_a<36> 22 red_out_a<36> 16353
red_out_a<37> 21 red_out_a<37> 16354
red_out_a<38> 20 red_out_a<38> 16355
red_out_a<39> 19 red_out_a<39> 16356
red_out_a<40> 18 red_out_a<40> 16357
red_out_a<41> 17 red_out_a<41> 16358
red_out_a<42> 16 red_out_a<42> 16359
red_out_a<43> 15 red_out_a<43> 16360
red_out_a<44> 14 red_out_a<44> 16361
red_out_a<45> 13 red_out_a<45> 16362
red_out_a<46> 12 red_out_a<46> 16363
red_out_a<47> 11 red_out_a<47> 16364
red_out_a<48> 10 red_out_a<48> 16365
red_out_a<49> 9 red_out_a<49> 16366
red_out_a<50> 8 red_out_a<50> 16367
red_out_a<51> 7 red_out_a<51> 16368
red_out_a<52> 6 red_out_a<52> 16369
red_out_a<53> 5 red_out_a<53> 16370
red_out_a<54> 4 red_out_a<54> 16371
red_out_a<55> 3 red_out_a<55> 16372
red_out_a<56> 2 red_out_a<56> 16373
red_out_a<57> 1 red_out_a<57> 16374
red_out_a<58> 0 red_out_a<58> 16375

```

X867apihivslvs

LVS DEVICE WATCH SUMMARY

NUMBER OF UN-WATCHED SCHEMATICS DEVICES = 0
 NUMBER OF UN-WATCHED SCHEMATICS DEVICES = 116
 NUMBER OF WATCHED SCHEMATICS DEVICES = 116392
 NUMBER OF WATCHED LAYOUT DEVICES = 116392

DISCREPANCY POINTS LISTING

NO DISCREPANCIES

***** DEVICE WATCHING SUMMARY BY TYPE *****

TYPE	SUB-TYPE	SCHEM.	TOTAL DEVICE	UN-WATCHED	WATCHED
WOC	P	132678	132678	0	1
WOC	N	112305	112305	0	0
BAT	SP	168	168	0	0
RES	P	247	247	0	0
RES	N	403	403	0	0
RES	M	6	6	0	0
RES	NI	5	5	0	0
RES	N2	12	12	0	0
RES	P2	4	4	0	0
RES	B1	24	24	0	0
DIO	ND	56	56	0	0
CAP	N	12	12	0	0
CAP	PS	170	518	0	348

***** UN-WATCHED LAYOUT DEVICES *****

***** DISCREPANCY POINTS LISTING *****

705V107142 WOC P
 X=1009.28 Y=-475.68
 794370, 777582, 777583
 705V10714
 X=105.55 CAP PS L= 5.00
 794737, 794389 Y=-148.10

X887apihvs.lvs

X887apihvs.lvs

```

: TDEW304 CAP PS
: 794472, 794524 Y=629.35
: TDEW320 CAP PS
: X=-105.60 Y=644.05
: TDEW321 CAP PS
: X=-41.10 Y=644.05
: 794684, 794536
: TDEW325 CAP PS
: 794695, 794547 Y=658.75
: TDEW342 CAP PS
: X=-41.10 Y=654.68.75
: TDEW358 CAP PS
: X=-105.60 Y=673.45
: TDEW367, 794539
: TDEW370 CAP PS
: X=-41.10 Y=673.50
: 794908, 794560
: TDEW388 CAP PS
: 794918, 794560 Y=688.15
: TDEW390 CAP PS
: 794920, 794572 Y=688.15
: X=-81.10 Y=683.75
: TDEW391 CAP PS
: X=-62.60 Y=688.15
: 794923, 794575
: TDEW392 CAP PS
: X=-41.10 Y=688.15
: 794923, 794575
: TDEW413 CAP PS
: X=-41.10 Y=688.15
: 794959, 794621
: TDEW454 CAP PS
: X=-81.10 Y=642.75 Y=1382.80
: TDEW455 CAP PS
: X=-60.33 Y=1382.80
: TDEW465 CAP PS
: X=-38.83 Y=1382.80
: 794972, 794624
: TDEW476 CAP PS
: 794987, 794639 Y=1397.50
: TDEW479 CAP PS
: X=-38.83 Y=1397.50
: TDEW485 CAP PS
: X=-103.33 Y=1412.20
: 794999, 794651
: TDEW489 CAP PS
: X=-38.83 Y=1412.20
: 795000, 794652
: TDEW514 CAP PS
: 795013, 794663 Y=1426.50

```

X887apnlv.svs

```

: TDEW517 CAP PS
: X=-38.83 Y=1426.90
: 795017, 794664
: TDEW519 CAP PS
: X=-40.33 Y=1441.60
: 795023, 794673 Y=1441.60
: TDEW516 CAP PS
: X=-38.83 Y=1441.65
: TDEW524 CAP PS
: X=-50.33 Y=1456.30
: 795035, 794668
: TDEW563 CAP PS
: 795037, 794669 Y=1456.30
: TDEW564 CAP PS
: X=-40.33 Y=1456.30
: TDEW567 CAP PS
: X=-38.83 Y=1456.30
: 795039, 794693
: X=-42.75 CAP Y=-152.20
: 794719, 794371
: TDEW633 CAP PS
: 794720, 794372 Y=-162.50
: TDEW64 CAP PS
: X=-38.83 Y=162.80
: TDEW643 CAP PS
: X=-42.75 Y=-168.10
: TDEW647 CAP PS
: X=-40.33 Y=-168.10
: 794735, 794387
: TDEW653 CAP PS
: 794736, 794388 Y=-168.10
: TDEW704 CAP PS
: X=-42.75 Y=133.40
: TDEW717 CAP PS
: X=-26.95 Y=-133.40
: 794735, 794666
: TDEW721 CAP PS
: 794736, 794667 Y=-118.76
: TDEW723 CAP PS
: X=-26.95 Y=118.76
: TDEW724 CAP PS
: X=-42.75 Y=-104.00
: TDEW727 CAP PS
: X=-38.83 Y=-104.00
: 794736, 794450
: TDEW751 CAP PS
: 794738, 794441 Y=-85.30

```

X887apnlv.svs

***** LVS SUMMARY (REPEATED) *****

***** LVS DEVICE MATCH SUMMARY *****

NUMBER OF UN-WATCHED SCHEMATICS DEVICES = 0
 NUMBER OF UN-WATCHED LAYOUT DEVICES = 349
 NUMBER OF WATCHED SCHEMATICS DEVICES = 136392
 NUMBER OF WATCHED LAYOUT DEVICES = 136392

***** DEVICE WATCHING SUMMARY BY TYPE *****

TYPE	SUB-TYPE	TOTAL DEVICE	UN-WATCHED DEVICE
		SCH. LAY.	SCH. LAY.
MOS	P	132678	132679
MOS	N	123205	123205
BAT	SP	168	168
RES	P	287	287
RES	N	403	403
RES	N3	6	6
RES	N4	12	12
RES	P2	4	4
RES	BL	24	24
RES	IND	24	24
CAP	N	20	20
CAP	N	32	32
CAP	PS	170	518
			348

 ** -- SCHEMATICS AND LAYOUTS MATCH
 ** CHECK ALL ABOVE DISCREPANCY
 ** AND WARNING MESSAGES

X887apn/lvs

[illegible]

X887aadrc.sum

[illegible]

X887aadc.sum

 /N/ BRANCH (REV 4.7.03-2000 / SWH-4.558) *****
 /N/ EXEC TIME 10:46:51 DATE 14-MAY-2002 HOSTNAME = flmbrld
 INDEX PRIMARY CELL : 9887A

***** LAYOUT SUMMARY REPORT *****

WEIGHT VALUE: 0.000000

***** REDUCE (LAYOUT) SUMMARY REPORT *****

***** STATISTICS BEFORE REDUCE *****
 MOS BAT RES DIODE CAP UND BOX CELL L2D
 291813 195 981 183 683 0 0 0 0
 1
 OPTION TO SQUASH PARALLEL DEVICES IS -- ON
 OPTION TO CONSTRUCT MOS PARALLEL/SERIES STRUCTURES IS -- ON
 OPTION TO SQUASH PARALLEL DEVICES IS -- ON
 OPTION TO PEEK CHMS GATES IS -- ON
 OPTION TO EXTRACT SUBSTRATE NODES OF GATES IS -- OFF

***** STATISTICS AFTER REDUCE *****
 MOS BAT RES JMW DIODE CAP SPWT PMT SUP
 58826 188 706 56827 96 223 63 0 58
 PMT 188 706 56827 96 223 63 0 58
 NOR 183 185 128 187 131 513 2821 184 1119
 NOR ON1 UND BOX CELL L2D PMID XOCAP
 183 2821 184 1119
 BOX 0 0 0 0 0 0 181
 PMT 0 0 0 0 0 0 181

***** REDUCE (SCHEDULE) SUMMARY REPORT *****

***** STATISTICS BEFORE REDUCE *****

MOS BAT RES DIODE CAP UND BOX CELL L2D
 266800 191 807 115 264 0 0 0 0

***** STATISTICS AFTER REDUCE *****

MOS BAT RES JMW DIODE CAP SPWT PMT SUP
 58826 188 706 56827 96 223 63 0 58
 PMT 188 706 56827 96 223 63 0 58
 NOR 183 185 128 187 131 513 2821 184 1119
 NOR ON1 UND BOX CELL L2D PMID XOCAP
 183 2821 184 1119
 BOX 0 0 0 0 0 0 181
 PMT 0 0 0 0 0 0 181

X887a1vs.lvs

***** LVS REPORT *****

DATE : 14-MAY-2002
 TIME : 11:39:32

PRINTING = 1000
 EXPONENT(MOS) = 2,000 &
 EXPONENT(DIODE) = 1,000 &
 EXPONENT(CAP) = 5,000 &
 CAPACITOR VALUE CHECK: CAPRES= 5,000 &
 RESISTOR VALUE CHECK: RESRES= 2,000 &
 RESISTOR LENGTH CHECK: RESLEN= 2,000 &
 DIODE AREA CHECK: DIODEAREA= 5,000 CONSIDERED AS KITCHEN
 UNDESIRABLE LAYOUT PARAMETERS ARE CONSIDERED AS KITCHEN
 ***** CORRESPONDENCE NODE PAIRS *****

SCHEDULES	LAYOUT	PAD TYPE
AGND 67	AGND	74 G
ALND 68	ALND	100 G
ALND 69	ALND	62 G
ALND 70	ALND	14 G
ALND 71	ALND	14 G
ALND 72	ALND	11 G
ALND 73	ALND	11 G
ALND 74	ALND	11 G
ALND 75	ALND	11 G
ALND 76	ALND	11 G
ALND 77	ALND	11 G
ALND 78	ALND	11 G
ALND 79	ALND	11 G
ALND 80	ALND	11 G
ALND 81	ALND	11 G
ALND 82	ALND	11 G
ALND 83	ALND	11 G
ALND 84	ALND	11 G
ALND 85	ALND	11 G
ALND 86	ALND	11 G
ALND 87	ALND	11 G
ALND 88	ALND	11 G
ALND 89	ALND	11 G
ALND 90	ALND	11 G
ALND 91	ALND	11 G
ALND 92	ALND	11 G
ALND 93	ALND	11 G
ALND 94	ALND	11 G
ALND 95	ALND	11 G
ALND 96	ALND	11 G
ALND 97	ALND	11 G
ALND 98	ALND	11 G
ALND 99	ALND	11 G
ALND 100	ALND	11 G
ALND 101	ALND	11 G
ALND 102	ALND	11 G
ALND 103	ALND	11 G
ALND 104	ALND	11 G
ALND 105	ALND	11 G
ALND 106	ALND	11 G
ALND 107	ALND	11 G
ALND 108	ALND	11 G
ALND 109	ALND	11 G
ALND 110	ALND	11 G
ALND 111	ALND	11 G
ALND 112	ALND	11 G
ALND 113	ALND	11 G
ALND 114	ALND	11 G
ALND 115	ALND	11 G
ALND 116	ALND	11 G
ALND 117	ALND	11 G
ALND 118	ALND	11 G
ALND 119	ALND	11 G
ALND 120	ALND	11 G
ALND 121	ALND	11 G
ALND 122	ALND	11 G
ALND 123	ALND	11 G
ALND 124	ALND	11 G
ALND 125	ALND	11 G
ALND 126	ALND	11 G
ALND 127	ALND	11 G
ALND 128	ALND	11 G
ALND 129	ALND	11 G
ALND 130	ALND	11 G
ALND 131	ALND	11 G
ALND 132	ALND	11 G
ALND 133	ALND	11 G
ALND 134	ALND	11 G
ALND 135	ALND	11 G
ALND 136	ALND	11 G
ALND 137	ALND	11 G
ALND 138	ALND	11 G
ALND 139	ALND	11 G
ALND 140	ALND	11 G
ALND 141	ALND	11 G
ALND 142	ALND	11 G
ALND 143	ALND	11 G
ALND 144	ALND	11 G
ALND 145	ALND	11 G
ALND 146	ALND	11 G
ALND 147	ALND	11 G
ALND 148	ALND	11 G
ALND 149	ALND	11 G
ALND 150	ALND	11 G
ALND 151	ALND	11 G
ALND 152	ALND	11 G
ALND 153	ALND	11 G
ALND 154	ALND	11 G
ALND 155	ALND	11 G
ALND 156	ALND	11 G
ALND 157	ALND	11 G
ALND 158	ALND	11 G
ALND 159	ALND	11 G
ALND 160	ALND	11 G
ALND 161	ALND	11 G
ALND 162	ALND	11 G
ALND 163	ALND	11 G
ALND 164	ALND	11 G
ALND 165	ALND	11 G
ALND 166	ALND	11 G
ALND 167	ALND	11 G
ALND 168	ALND	11 G
ALND 169	ALND	11 G
ALND 170	ALND	11 G
ALND 171	ALND	11 G
ALND 172	ALND	11 G
ALND 173	ALND	11 G
ALND 174	ALND	11 G
ALND 175	ALND	11 G
ALND 176	ALND	11 G
ALND 177	ALND	11 G
ALND 178	ALND	11 G
ALND 179	ALND	11 G
ALND 180	ALND	11 G
ALND 181	ALND	11 G
ALND 182	ALND	11 G
ALND 183	ALND	11 G
ALND 184	ALND	11 G
ALND 185	ALND	11 G
ALND 186	ALND	11 G
ALND 187	ALND	11 G
ALND 188	ALND	11 G
ALND 189	ALND	11 G
ALND 190	ALND	11 G
ALND 191	ALND	11 G
ALND 192	ALND	11 G
ALND 193	ALND	11 G
ALND 194	ALND	11 G
ALND 195	ALND	11 G
ALND 196	ALND	11 G
ALND 197	ALND	11 G
ALND 198	ALND	11 G
ALND 199	ALND	11 G
ALND 200	ALND	11 G
ALND 201	ALND	11 G
ALND 202	ALND	11 G
ALND 203	ALND	11 G
ALND 204	ALND	11 G
ALND 205	ALND	11 G
ALND 206	ALND	11 G
ALND 207	ALND	11 G
ALND 208	ALND	11 G
ALND 209	ALND	11 G
ALND 210	ALND	11 G
ALND 211	ALND	11 G
ALND 212	ALND	11 G
ALND 213	ALND	11 G
ALND 214	ALND	11 G
ALND 215	ALND	11 G
ALND 216	ALND	11 G
ALND 217	ALND	11 G
ALND 218	ALND	11 G
ALND 219	ALND	11 G
ALND 220	ALND	11 G
ALND 221	ALND	11 G
ALND 222	ALND	11 G
ALND 223	ALND	11 G
ALND 224	ALND	11 G
ALND 225	ALND	11 G
ALND 226	ALND	11 G
ALND 227	ALND	11 G
ALND 228	ALND	11 G
ALND 229	ALND	11 G
ALND 230	ALND	11 G
ALND 231	ALND	11 G
ALND 232	ALND	11 G
ALND 233	ALND	11 G
ALND 234	ALND	11 G
ALND 235	ALND	11 G
ALND 236	ALND	11 G
ALND 237	ALND	11 G
ALND 238	ALND	11 G
ALND 239	ALND	11 G
ALND 240	ALND	11 G
ALND 241	ALND	11 G
ALND 242	ALND	11 G
ALND 243	ALND	11 G
ALND 244	ALND	11 G
ALND 245	ALND	11 G
ALND 246	ALND	11 G
ALND 247	ALND	11 G
ALND 248	ALND	11 G
ALND 249	ALND	11 G
ALND 250	ALND	11 G
ALND 251	ALND	11 G
ALND 252	ALND	11 G
ALND 253	ALND	11 G
ALND 254	ALND	11 G
ALND 255	ALND	11 G
ALND 256	ALND	11 G
ALND 257	ALND	11 G
ALND 258	ALND	11 G
ALND 259	ALND	11 G
ALND 260	ALND	11 G
ALND 261	ALND	11 G
ALND 262	ALND	11 G
ALND 263	ALND	11 G
ALND 264	ALND	11 G
ALND 265	ALND	11 G
ALND 266	ALND	11 G
ALND 267	ALND	11 G
ALND 268	ALND	11 G
ALND 269	ALND	11 G
ALND 270	ALND	11 G
ALND 271	ALND	11 G
ALND 272	ALND	11 G
ALND 273	ALND	11 G
ALND 274	ALND	11 G
ALND 275	ALND	11 G
ALND 276	ALND	11 G
ALND 277	ALND	11 G
ALND 278	ALND	11 G
ALND 279	ALND	11 G
ALND 280	ALND	11 G
ALND 281	ALND	11 G
ALND 282	ALND	11 G
ALND 283	ALND	11 G
ALND 284	ALND	11 G
ALND 285	ALND	11 G
ALND 286	ALND	11 G
ALND 287	ALND	11 G
ALND 288	ALND	11 G
ALND 289	ALND	11 G
ALND 290	ALND	11 G
ALND 291	ALND	11 G
ALND 292	ALND	11 G
ALND 293	ALND	11 G
ALND 294	ALND	11 G
ALND 295	ALND	11 G
ALND 296	ALND	11 G
ALND 297	ALND	11 G
ALND 298	ALND	11 G
ALND 299	ALND	11 G
ALND 300	ALND	11 G
ALND 301	ALND	11 G
ALND 302	ALND	11 G
ALND 303	ALND	11 G
ALND 304	ALND	11 G
ALND 305	ALND	11 G
ALND 306	ALND	11 G
ALND 307	ALND	11 G
ALND 308	ALND	11 G
ALND 309	ALND	11 G
ALND 310	ALND	11 G
ALND 311	ALND	11 G
ALND 312	ALND	11 G
ALND 313	ALND	11 G
ALND 314	ALND	11 G
ALND 315	ALND	11 G
ALND 316	ALND	11 G
ALND 317	ALND	11 G
ALND 318	ALND	11 G
ALND 319	ALND	11 G
ALND 320	ALND	11 G
ALND 321	ALND	11 G
ALND 322	ALND	11 G
ALND 323	ALND	11 G
ALND 324	ALND	11 G
ALND 325	ALND	11 G
ALND 326	ALND	11 G
ALND 327	ALND	11 G
ALND 328	ALND	11 G
ALND 329	ALND	11 G
ALND 330	ALND	11 G
ALND 331	ALND	11 G
ALND 332	ALND	11 G
ALND 333	ALND	11 G
ALND 334	ALND	11 G
ALND 335	ALND	11 G
ALND 336	ALND	11 G
ALND 337	ALND	11 G
ALND 338	ALND	11 G
ALND 339	ALND	11 G
ALND 340	ALND	11 G
ALND 341	ALND	11 G
ALND 342	ALND	11 G
ALND 343	ALND	11 G
ALND 344	ALND	11 G
ALND 345	ALND	11 G
ALND 346	ALND	11 G
ALND 347	ALND	11 G
ALND 348	ALND	11 G
ALND 349	ALND	11 G
ALND 350	ALND	11 G
ALND 351	ALND	11 G
ALND 352	ALND	11 G
ALND 353	ALND	11 G
ALND 354	ALND	11 G
ALND 355	ALND	11 G
ALND 356	ALND	11 G
ALND 357	ALND	11 G
ALND 358	ALND	11 G
ALND 359	ALND	11 G
ALND 360	ALND	11 G


```

: TDEW34  CAR PS
: X=-103.10 Y=-829.35
: 794873. 794535
: TDEW370  CAR PS
: X=-115.50 Y=-844.05
: X=-118. 794537 Y=-844.05
: TDEW333  CAR PS
: X=-41.10 Y=-644.05
: TDEW385 794537
: TDEW383  CAR PS
: X=-105.60 CH PS
: 794896. 794548
: TDEW312  CAR PS
: X=-103.10 Y=-668.75
: 794897. 794549
: TDEW358  CAR PS
: X=-105.50 Y=-673.45
: X=-118. 794550 Y=-673.45
: TDEW381  CAR PS
: X=-41.10 Y=-673.50
: X=9959. 794551
: TDEW389  CAR PS
: X=-105.60 Y=-688.15
: 794921. 794573
: TDEW390  CAR PS
: X=-103.10 Y=-688.15
: 794932. 794574
: TDEW391  CAR PS
: X=-62.60 Y=-688.15
: X=-113. 794577 Y=-688.15
: TDEW392  CAR PS
: X=-41.10 Y=-688.15
: X=9959. 794576
: TDEW433  CAR PS
: X=-103.33 CH PS
: X=-103.33 Y=-1382.80
: 794970. 794672
: TDEW424  CAR PS
: X=-62.60 Y=-1382.80
: 794971. 794673
: TDEW455  CAR PS
: X=-62.33 Y=-1382.80
: X=-103.33 Y=-1382.80
: TDEW446  CAR PS
: X=-38.83 Y=-1382.80
: TDEW445  CAR PS
: X=-103.33 Y=-1397.50
: 794988. 794680
: TDEW439  CAR PS
: X=-62.60 Y=-1397.50
: 794989. 794681
: TDEW495  CAR PS
: X=-103.33 Y=-1412.20
: X=9959. 794683 Y=-1412.20
: TDEW498  CAR PS
: X=-38.83 Y=-1412.20
: X=9959. 794683
: TDEW494  CAR PS
: X=-103.33 Y=-1428.50
: 795012. 794684

```

X887ains.IVS

```

: TDEW317  CAR PS
: X=95013. 794685
: TDEW333  CAR PS
: X=-103.33 Y=-1441.60
: X=-118. 794687 Y=-1441.60
: TDEW356  CAR PS
: X=-38.83 Y=-1441.65
: X=9959. 794687
: TDEW389  CAR PS
: X=-103.33 Y=-1456.30
: 795037. 794689
: TDEW465  CAR PS
: X=95013. 794690
: TDEW466  CAR PS
: X=-60.33 Y=-1456.30
: X=-118. 794691 Y=-1456.30
: TDEW467  CAR PS
: X=-38.83 Y=-1456.30
: X=9959. 794692
: X=427.75 CAR PS
: 795040. 794692
: X=427.75 CAR PS
: 794720. 794732
: TDEW633  CAR PS
: X=427.75 Y=-162.80
: X=427.75 Y=-162.80
: TDEW644  CAR PS
: X=-184.95 Y=-162.80
: TDEW624  CAR PS
: X=-427.75 Y=-168.10
: 795435. 794787
: TDEW466  CAR PS
: X=427.75 Y=-168.10
: 794785. 794788
: TDEW633  CAR PS
: X=427.75 Y=-168.10
: X=427.75 Y=-168.10
: TDEW104  CAR PS
: X=427.75 Y=-168.10
: X=427.75 Y=-168.10
: TDEW142  CAR PS
: X=-184.95 Y=-168.10
: X=-38.83 Y=-168.10
: X=-38.83 Y=-168.10
: X=9959. 794787
: TDEW125  CAR PS
: X=9959. 794787 Y=-168.10
: X=-184.95 Y=-168.10
: TDEW142  CAR PS
: X=-184.95 Y=-168.10
: X=-184.95 Y=-168.10
: X=9959. 794787
: TDEW142  CAR PS
: X=9959. 794787 Y=-168.10
: X=9959. 794787

```

X887ains.IVS

***** LUS SINGAPORE (REPAIRED) *****

***** LUS DEVICE MATCH SINGAPORE *****

NUMBER OF UN-MATCHED SCHEMATICS DEVICES = 0
 NUMBER OF UN-MATCHED LAYOUT DEVICES = 319
 NUMBER OF UN-MATCHED SCHEMATICS DEVICES = 13613
 NUMBER OF UN-MATCHED LAYOUT DEVICES = 13613

***** DEVICE MATCHING SUMMARY BY TYPE *****

TYPE	SUB-TYPE	TOTAL DEVICE		UN-MATCHED DEVICE	
		SCH.	LAY.	SCH.	LAY.
MOS	P	112675	122676	0	1
MOS	N	123029	123029	0	0
RES	SP	148	148	0	0
RES	PL	149	149	0	0
RES	M1	1	1	0	0
RES	N	403	403	0	0
RES	M3	6	6	0	0
RES	M2	6	6	0	0
RES	PL	12	12	0	0
RES	P2	4	4	0	0
RES	B1	24	24	0	0
RES	B2	54	54	0	0
CAP	N	21	21	0	0
CAP	PM	12	12	0	0
CAP	PS	170	518	0	348

 /R -- SCHEMATIC AND LAYOUT MAY NOT MATCH ***
 **
 ** CHECK ALL ABOVE DISCREPANCY *****
 ** AND WARNING MESSAGES *****
 **

X807aivslvs

 /N/ DPMCLIA (REV 4.1.03-2000 / SDA-4553) *** GENDATE: 29-SEP-2000)
 /N/ (Copyright 1995, Cadence) ***
 /N/ EXEC TIME 11:42:30 DATE -14-MAY-2002 HOSTNAME = flebird
 INDEX PRIMARY CELL : 9887A

***** LAYOUT SUMMARY REPORT *****

NETEET VALUE: 0.0000000

***** REMOVE (LAYOUT) SUMMARY REPORT *****

***** STATISTICS BEFORE REMOVE ****

NOS BAT RES DIODE CAP UND BOX CELL LDD
 231613 195 961 163 315 348 0 0 0
 OPTION TO PUSH PARALLEL DEVICES IS -- ON
 OPTION TO CONSTRUCT NOS PARALLEL/SERIES STRUCTURES IS -- ON
 OPTION TO CONSTRUCT NOS PARALLEL/SERIES STRUCTURES IS -- ON
 OPTION TO FORM CDS DATES IS -- ON
 OPTION TO EXTRACT SUBSTRATE NODES OF DATES IS -- OFF

***** STATISTICS AFTER REMOVE ****

NOS BAT RES DIODE CAP UND BOX CELL LDD
 58627 168 705 56627 96 223 63
 231613 195 961 163 315 348 0 0 0
 183 120 128 387 513 2321
 NOR OAI UND BOX CELL LDD SHID
 1939 1935 348 0 0 0
 DOW 0
 DOW 0

***** REMOVE (SCHEMATIC) SUMMARY REPORT *****

***** STATISTICS BEFORE REMOVE ****

NOS BAT RES DIODE CAP UND BOX CELL LDD
 266800 191 801 115 264 0 0 0 0

***** STATISTICS AFTER REMOVE ****

NOS BAT RES DIODE CAP UND BOX CELL LDD
 58626 168 705 56627 96 223 63
 231613 195 961 163 315 348 0 0 0
 183 120 128 387 513 2321
 NOR OAI UND BOX CELL LDD SHID
 1939 1935 348 0 0 0
 DOW 0
 DOW 0

X887a1vss.lvs

*/N/ WARNING :: SOFT-CONNECTING MULTIPLE NODES IN UPPER LAYERS
 TO ONE POLYGON REGION IN: P1WT
 */I/ # OF REGIONS MULTIPLE SOFT-CONNECTED = 4

*/I/ PLEASE REFER TO .ENC FILE FOR DETAIL

*/N/ WARNING :: SOFT-CONNECTING MULTIPLE NODES IN UPPER LAYERS
 TO ONE POLYGON REGION IN: P1WT

*/I/ # OF REGIONS MULTIPLE SOFT-CONNECTED = 453

*/I/ PLEASE REFER TO .ENC FILE FOR DETAIL

***** LVS REPORT *****

DATE : 14-MAY-2002

TIME : 12:21:21

PRINTLINE = 1000
 /PERCENTAGES = 2.000 %
 /RESISTANCE = 1.000 %
 /CAPACITANCE = 1.000 %
 /CAPACITOR VALUE CHECK: CAPVAL= 5.000 %
 /RESISTOR VALUE CHECK: RESVAL= 2.000 %
 /DIODE AREA CHECK: DIODEA= 5.000 %
 /DIODE AREA CHECK: DIODEA= 5.000 %
 UNSPECIFIED LAYOUT PARAMETERS ARE CONSIDERED AS MISMATCH
 CORRESPONDENCE NODE Pairs *****

1

SCHEMATICS LAYOUT PAD TYPE

SCHEMATICS	LAYOUT	PAD TYPE
AND	67	74
AND	68	75
AND	69	76
AND	70	82
AND	71	14
AND	72	15
AND	73	16
AND	74	17
AND	75	27
AND	76	28
AND	77	29
AND	78	30
AND	79	31
AND	80	32
AND	81	33
AND	82	34
AND	83	35
AND	84	36
AND	85	37
AND	86	38
AND	87	39
AND	88	40
AND	89	41
AND	90	42
AND	91	43
AND	92	44
AND	93	45
AND	94	46
AND	95	47
AND	96	48
AND	97	49
AND	98	50
AND	99	51
AND	100	52
AND	101	53
AND	102	54
AND	103	55
AND	104	56
AND	105	57
AND	106	58
AND	107	59
AND	108	60
AND	109	61
AND	110	62
AND	111	63
AND	112	64
AND	113	65
AND	114	66
AND	115	67
AND	116	68
AND	117	69
AND	118	70
AND	119	71
AND	120	72
AND	121	73
AND	122	74
AND	123	75
AND	124	76
AND	125	77
AND	126	78
AND	127	79
AND	128	80
AND	129	81
AND	130	82
AND	131	83
AND	132	84
AND	133	85
AND	134	86
AND	135	87
AND	136	88
AND	137	89
AND	138	90
AND	139	91
AND	140	92
AND	141	93
AND	142	94
AND	143	95
AND	144	96
AND	145	97
AND	146	98
AND	147	99
AND	148	100
AND	149	101
AND	150	102
AND	151	103
AND	152	104
AND	153	105
AND	154	106
AND	155	107
AND	156	108
AND	157	109
AND	158	110
AND	159	111
AND	160	112
AND	161	113
AND	162	114
AND	163	115
AND	164	116
AND	165	117
AND	166	118
AND	167	119
AND	168	120
AND	169	121
AND	170	122
AND	171	123
AND	172	124
AND	173	125
AND	174	126
AND	175	127
AND	176	128
AND	177	129
AND	178	130
AND	179	131
AND	180	132
AND	181	133
AND	182	134
AND	183	135
AND	184	136
AND	185	137
AND	186	138
AND	187	139
AND	188	140
AND	189	141
AND	190	142
AND	191	143
AND	192	144
AND	193	145
AND	194	146
AND	195	147
AND	196	148
AND	197	149
AND	198	150
AND	199	151
AND	200	152
AND	201	153
AND	202	154
AND	203	155
AND	204	156
AND	205	157
AND	206	158
AND	207	159
AND	208	160
AND	209	161
AND	210	162
AND	211	163
AND	212	164
AND	213	165
AND	214	166
AND	215	167
AND	216	168
AND	217	169
AND	218	170
AND	219	171
AND	220	172
AND	221	173
AND	222	174
AND	223	175
AND	224	176
AND	225	177
AND	226	178
AND	227	179
AND	228	180
AND	229	181
AND	230	182
AND	231	183
AND	232	184
AND	233	185
AND	234	186
AND	235	187
AND	236	188
AND	237	189
AND	238	190
AND	239	191
AND	240	192
AND	241	193
AND	242	194
AND	243	195
AND	244	196
AND	245	197
AND	246	198
AND	247	199
AND	248	200
AND	249	201
AND	250	202
AND	251	203
AND	252	204
AND	253	205
AND	254	206
AND	255	207
AND	256	208
AND	257	209
AND	258	210
AND	259	211
AND	260	212
AND	261	213
AND	262	214
AND	263	215
AND	264	216
AND	265	217
AND	266	218
AND	267	219
AND	268	220
AND	269	221
AND	270	222
AND	271	223
AND	272	224
AND	273	225
AND	274	226
AND	275	227
AND	276	228
AND	277	229
AND	278	230
AND	279	231
AND	280	232
AND	281	233
AND	282	234
AND	283	235
AND	284	236
AND	285	237
AND	286	238
AND	287	239
AND	288	240
AND	289	241
AND	290	242
AND	291	243
AND	292	244
AND	293	245
AND	294	246
AND	295	247
AND	296	248
AND	297	249
AND	298	250
AND	299	251
AND	300	252
AND	301	253
AND	302	254
AND	303	255
AND	304	256
AND	305	257
AND	306	258
AND	307	259
AND	308	260
AND	309	261
AND	310	262
AND	311	263
AND	312	264
AND	313	265
AND	314	266
AND	315	267
AND	316	268
AND	317	269
AND	318	270
AND	319	271
AND	320	272
AND	321	273
AND	322	274
AND	323	275
AND	324	276
AND	325	277
AND	326	278
AND	327	279
AND	328	280
AND	329	281
AND	330	282
AND	331	283
AND	332	284
AND	333	285
AND	334	286
AND	335	287
AND	336	288
AND	337	289
AND	338	290
AND	339	291
AND	340	292
AND	341	293
AND	342	294
AND	343	295
AND	344	296
AND	345	297
AND	346	298
AND	347	299
AND	348	300
AND	349	301
AND	350	302
AND	351	303
AND	352	304
AND	353	305
AND	354	306
AND	355	307
AND	356	308
AND	357	309
AND	358	310
AND	359	311
AND	360	312
AND	361	313
AND	362	314
AND	363	315
AND	364	316
AND	365	317
AND	366	318
AND	367	319
AND	368	320
AND	369	321
AND	370	322
AND	371	323
AND	372	324
AND	373	325
AND	374	326
AND	375	327
AND	376	328
AND	377	329
AND	378	330
AND	379	331
AND	380	332
AND	381	333
AND	382	334
AND	383	335
AND	384	336

DISCREPANCY 3 *****

--- NODE X114-X1-X18-X14-CO
---WITH UN-WATCHED DEVICES-----

OCCURRENCE NAME X1144-X1-X18-X15-U21.00T

DEJ35657 INV X1144-X1-X18-X15-U21.00T,

X1144-X1-X18-X14-CO,

X1144-X1-X18-X15-U21.00T,

X1144-X1-X18-X14-CO,

OCCURRENCE NAME X1144-X1-X18-X15-U28.1N2

DEJ308798 NOR

X1144-X1-X18-X14-U28.1N2

X1144-X1-X18-X14-U28.1N2

X1144-X1-X18-X14-U28.1N2

OCCURRENCE NAME X1144-X1-X18-X14-U28.00T

DEJ308600 NOR

X1144-X1-X18-X14-U28.00T,

X1144-X1-X18-X14-U28.00T,

X1144-X1-X18-X14-U28.00T,

OCCURRENCE NAME X1144-X1-X18-X14-CO

DEJ359531 INV

X1144-X1-X18-X14-CO,

X1144-X1-X18-X14-U21.00T

OCCURRENCE NAME X1144-X1-X18-X14-U21.00T

DEJ359520 NOS P

X1144-X1-X18-X14-U21.00T,

X1144-X1-X18-X14-U21.00T,

X1144-X1-X18-X14-U21.00T,

OCCURRENCE NAME X1144-X1-X18-X14-U21.00T

DEJ359576 NAND

X1144-X1-X18-X14-U21.00T,

X1144-X1-X18-X14-U21.00T,

OCCURRENCE NAME X1144-X1-X18-X14-U21.00T

DEJ359576 NAND

X1144-X1-X18-X14-U21.00T,

X1144-X1-X18-X14-U21.00T,

OCCURRENCE NAME X1144-X1-X18-X14-U21.00T

DISCREPANCY 4 *****

--- NODE X114-X1-X18-X17-U21.1N2
---WITH UN-WATCHED DEVICES-----

OCCURRENCE NAME X1144-X1-X18-X17-U21.1N2

DEJ356577 INV X1144-X1-X18-X17-U21.1N2,

X1144-X1-X18-X17-U21.1N2,

X1144-X1-X18-X17-U21.1N2,

X1144-X1-X18-X17-U21.1N2,

OCCURRENCE NAME X1144-X1-X18-X17-U28.1N2

DEJ308789 NOR

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

OCCURRENCE NAME X1144-X1-X18-X17-U28.1N2

DEJ351132 INV

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

OCCURRENCE NAME X1144-X1-X18-X17-U28.1N2

DEJ351132 INV

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

OCCURRENCE NAME X1144-X1-X18-X17-U28.1N2

DEJ351132 INV

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

OCCURRENCE NAME X1144-X1-X18-X17-U28.1N2

DEJ351132 INV

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

OCCURRENCE NAME X1144-X1-X18-X17-U28.1N2

DEJ351132 INV

X1144-X1-X18-X17-U28.1N2,

X1144-X1-X18-X17-U28.1N2,

OCCURRENCE NAME X1144-X1-X18-X17-U28.1N2

X887a1vss.i/vs

X887a1vss.i/vs

***** LVS DEVICE WATCH SUMMARY *****

NUMBER OF UN-WATCHED SCHEMATICS DEVICES = 5
 NUMBER OF UN-WATCHED LAYOUTS DEVICES = 359
 NUMBER OF WATCHED SCHEMATICS DEVICES = 11648
 NUMBER OF WATCHED LAYOUT DEVICES = 116208

***** DISCREPANCY POINTS SUMMARY *****

15 WATCHED NODE TO UN-WATCHED LAYOUT AND SCHEMATIC DEVICES

***** DEVICE WATCHING SUMMARY BY TYPE *****

TYPE	SUB-TYPE	SCHEM.	LAYOUT	UN-WATCHED SCHEM.	UN-WATCHED LAYOUT
NOS	P	122959	122956	10	11
NOS	R	122959	122959	10	10
BJT	SP	123168	123168	0	0
RES	P	247	247	0	0
RES	W1	1	1	0	0
RES	W2	463	463	0	0
RES	W3	6	6	0	0
RES	W4	9	9	0	0
RES	W5	12	12	0	0
RES	W6	12	12	0	0
RES	W7	24	24	0	0
RES	W8	24	24	0	0
DIO	ND	96	96	0	0
CAP	N	21	21	0	0
CAP	W	21	21	0	0
CAP	PS	170	170	0	0

 **/ - SCHEMATIC AND LAYOUT MAY NOT MATCH
 **
 ** CHECK ALL ABOVE DISCREPANCY
 **

X88701SS.VS

Statistics Of Layers

Layer #	Rectangles	Polygons	Paths	Ellipses	Labels	Nodes
0	10	1	13	0	247	0
1	7351	140	12	0	0	0
2	7889	461	12	0	0	0
4	6546	1693	40	0	0	0
5	10831	499	5	0	0	0
7	147304	0	3	0	0	0
8	31753	2388	11513	0	0	0
9	140836	0	2	0	0	0
10	7280	228	98420	0	1	0
11	1	0	1	0	0	0
12	77	13	0	0	0	0
13	2	0	0	0	0	0
14	123135	0	3	0	0	0
15	1158	113	53811	0	1	0
19	11	0	0	0	0	0
21	0	0	0	0	2455	0
22	0	0	0	0	2413	0
24	0	0	0	0	1945	0
25	134	2	0	0	0	0
33	147	23	0	0	1	0
38	50739	15317	0	0	0	0
40	3448	1354	0	0	0	0
43	6633	86	0	0	0	0
44	3448	1354	0	0	0	0
56	244	0	0	0	0	0
57	15788	2500	0	0	0	0
58	15549	2585	1	0	0	0
59	137044	57314	1	0	0	0
63	9	2	52	0	7775	0
64	154	87	0	0	0	0
235	9	6	0	0	0	0

LVS.

```

LVS with Stamps-
Drc's only Standard Pitch Pads
Drc's only Fine Pitch Pads
Manufacturing drcs.
ERC(Excs only)
Bsd and Latching checks.
Latchup Checkband/run acting checks.
OPEMRts (Opens/shams only)
DRC's and Lvs with Stamps.
Drc and ERC
Drcs with gen.layrs output.
All Drc's for QA.
Attenuee checks.
Xct of two layers down 140 dtm strc
Xct<140 dtm screen file As to clat)
Generate cutting layr's only.
I2P (Patented lath only) lumped as
l2p (Pat - mys gen caps) lumped as
l2p (Pat - mys gen caps) lumped as
LTH (Prints Mx gnt's term caps)
LTH (Prints Mx gnt's term caps)
Drcs or place gen.layrs.
Drcs (place gen.layrs) need gen.layrs
Drcs (place gen.layrs) need gen.layrs

```

```

1 file.
2 def strm. file B>
3   def.
4   def.
5   se to end.
6   3rd.

```

THE

~~CONFIDENTIAL~~

Job Parameters

- (0) system [CDS01]
- (1) Master Subblock <schematic> [9887ac.1]
- (2) Cdl Filename [9887ac01.001]
- (3) Primary Structure [9887A]
- (4) Stream file name [9887a.gin]
- (5) Output Stream file name [9887a.gin]
- (6) Power Nodes [ALV000000 VDD OVDD PVD]
- (7) Ground Nodes [ACN0000000 GND GND PGN SUBGND]
- (8) Keep Temporary data <YES/NO/SMART> [YES]
- (9) Device Size Checking [YES]
- (10) Optional extra parameters
- (11) Save Project file
- (12) Help
- (13) Abort program
- (14) Exit

Enter number <0-14>:-